



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: 3500 M STREET, NW, SUITE 300, PATENTS AND TRADEMARKS
Washington, DC 20412-2023
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/056,615	01/23/2002	Keith McQuilkin Muir	17732 (MHM 13377US01)	9490

7590 01/17/2003

Tyco Electronics Corporation
Suite 450
4550 New Linden Hill Road
Wilmington, DE 19808-2952

EXAMINER

HARRIS, ANTON B

ART UNIT	PAPER NUMBER
2834	

DATE MAILED: 01/17/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

10/056,615

MURR ET AL.

Examiner

Art Unit

Anton B Harris

2831

Office Action Summary

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on ____.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-31 is/are pending in the application.

4a) Of the above claim(s) ____ is/are withdrawn from consideration.

5) Claim(s) ____ is/are allowed.

6) Claim(s) 1-31 is/are rejected.

7) Claim(s) ____ is/are objected to.

8) Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on ____ is/are: a) accepted or b) objected to by the Examiner
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) The proposed drawing correction filed on ____ is: a) approved b) disapproved by the Examiner
 If approved, corrected drawings are required in reply to this Office action.

12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. ____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application.
 * See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application)
 a) The translation of the foreign language provisional application has been received.

15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

Notice of Allowance and Fee(s) Due
 Notice of Draftsperson's Patent Drawing Review (PTO-134a)
 Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2

Interference Summary (PTO-411) Paper No(s) 2
 Notice of Informal Patent Application (PTO-152)
 Other

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 2, 4, 8, 10-13, 15, 19, 21-23, 25, 29, and 31 are rejected under 35 U.S.C. 102(b) as being anticipated by German (5,168,995).

Regarding claim 1, German (col. 2, lines 17-44) discloses a cover 10 comprising:

a body section having a top surface 32 configured to form a vacuum seal with a tool; and
a component retention member 30 connected to an end of said body section.

Regarding claims 2, 13, and 23, German (col. 2, lines 55-68) discloses a component retention member 30 including a release arm 28 normally biased toward an electrical component 40 and deflectable in an opposite second direction away from an electrical component 40.

Regarding claim 4, German (figure 4) clearly discloses a component retention member 30 including a release arm 28 oriented at a retention angle to, and extending downward from, said top surface 32, the release arm 28 being deflectable from the retention angle to release an electrical component 40.

REGARDING CLAIMS 8, 10, 11, 12, 15, 19, 21-23, 25, 29, and 31: German (figure 4) discloses the claim section with opposite ends molded integral with end walls of the component retention member 30, the end

walls extending in a direction transverse to a plane containing the top surface 32, the end walls extending laterally along the opposite ends.

Furthermore, the limitation of "said body section is injection molded" has been considered, but does not result in a structural difference. The presence of process limitations in product claims, which product does not otherwise patentably distinguish over prior art, cannot impart patentability to that product. *In re Stephens*, 145 USPQ 656 (CCPA 1965).

Regarding claim 10, German (figure 4) clearly discloses that the component retention member 30 is formed integral with an end of the body section.

Regarding claims 11, 21, and 31, German (figure 4) clearly discloses that the top surface 32 is rigid and planar.

Regarding claim 12, German (figure 4) discloses an electrical component cover comprising:

a body section having peripheral edges 24 and a planar top surface 32 configured to form a vacuum seal with a tool, an end flange 26 provided along a peripheral edge 24 of the body section, the end flange being configured to prevent movement of an upper end of an electrical component in at least one direction parallel to the top surface 32, and a release arm 28 connected to at least one of the at least two opposed edges of the body section, the release arm 28 being configured to releasably retain an electrical component 40.

Regarding claims 15 and 25, German (figure 4) clearly discloses the release arm 28 is oriented at a retention angle 29 and extending downward from the planar top surface 32, the release arm 28 having a lever 30 extending upward from the planar top surface 32, the release arm 28 being deflectable from the retention angle to release an electric component 40.

Regarding claim 22, German (figure 4) discloses an electrical component cover comprising:

a body section having peripheral edges 24 and a planar top surface 32 configured to form a vacuum seal with a tool, and a release arm 28 connected to at least one of the at least two opposed edges of the body section, the release arm 28 being configured to releasably retain an electrical component 40.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c)

4. Claims 5, 6, 7, 14, 17, 18, 24, 27, and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over German.

Regarding claims 3, 14, and 24, German (col. 2, lines 60-63) discloses a component retention member 30 including a catch surface (between the insides of both reference #'s 28) configured to be secured to the sides of the electric component 40, but lacks being secured to the bottom of an electric component. It would have been an obvious matter of design choice to modify the component retention member of German by providing a catch surface configured to be secured to the bottom of an electric component, since such a modification would have involved a mere change in the size of a component. A change in size is generally recognized as being within the level of ordinary skill in the art. *In re Rose*, 105 USPQ 237 (CCPA 1955).

Regarding claims 6, 17, and 27, German (figure 4) discloses a component release member 30 including a release arm 28 extending in a direction generally perpendicular to said body section and being normally biased to form an angle with respect to said top surface 32, and the release arm 28 being deflectable to form an obtuse angle with respect to the body section to release an electrical component, but lacks the angle being no greater than ninety degrees when normally biased.

It would have been an obvious matter of design choice to modify the component retention member of German by providing a release arm having an angle being no greater than ninety degrees when normally biased, since such a modification would have involved a mere change in the size of a component's angle. A change in size is generally recognized as being within the level of ordinary skill in the art. *In re Rose*, 105 USPQ 237 (CCPA 1955).

extending from an end of the body section, the stop beam 18 being configured to engage an

electrical component 40 to hold an electrical component 40 a desired distance from said body section, but lacks the stop beam being at an acute angle to said top surface.

It would have been an obvious matter of design choice to modify the stop beam of German by providing a stop beam having an acute angle to the top surface, since such a modification would have involved a mere change in the size of a component's angle. A change in size is generally recognized as being within the level of ordinary skill in the art. *In re Rose*, 105 USPQ 237 (CCPA 1955).

5. Claims 5, 9, 16, 20, 26, and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over German in view of Miyazawa (5,361,492 cited by Applicant).

Regarding claims 5, 16, and 26, German discloses the invention substantially as claimed, but lacks a release arm having a lower ledge bent inward.

Miyazawa (figure 1) teaches a release arm 9 having a lower ledge 11 bent inward.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the release arm of German by providing a release arm having a lower ledge bent inward in order to latch the cover to the connector in view of the teachings of Miyazawa.

Regarding claims 9, 20, and 30, the teaching of Miyazawa (figure 1) includes component retention member 9 including a release beam (near reference #11) oriented parallel to a plane containing the body section, the release beam (near reference #11) extending laterally along an

Conclusion

Art Unit: 2831

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Green U.S. Patent No. 5,526,952 discloses a cover for electric components including a plurality of projections and a molded construction.

Swetnam U.S. Patent No. 4,541,538 discloses an electric device cover with detents projecting from the side walls for fastening to device components.

Correnti U.S. Patent No. 5,195,901 discloses an electric component cover including release arms that flex outward during detachment.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anton B Harris whose telephone number is (703) 305-4764. The examiner can normally be reached on weekdays from 8:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Dean Reichard, can be reached on (703) 308-3682. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-1341.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0956.

abh

1/13/03

John S. ...
SEARCHED
INDEXED
MAILED
BY PATENT EXAMINER
1/13/03